

FIG. 1

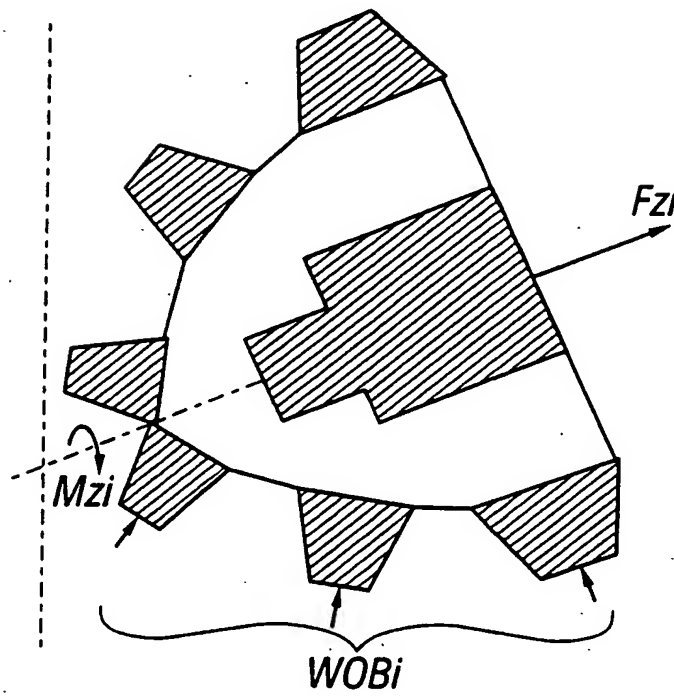


FIG. 2

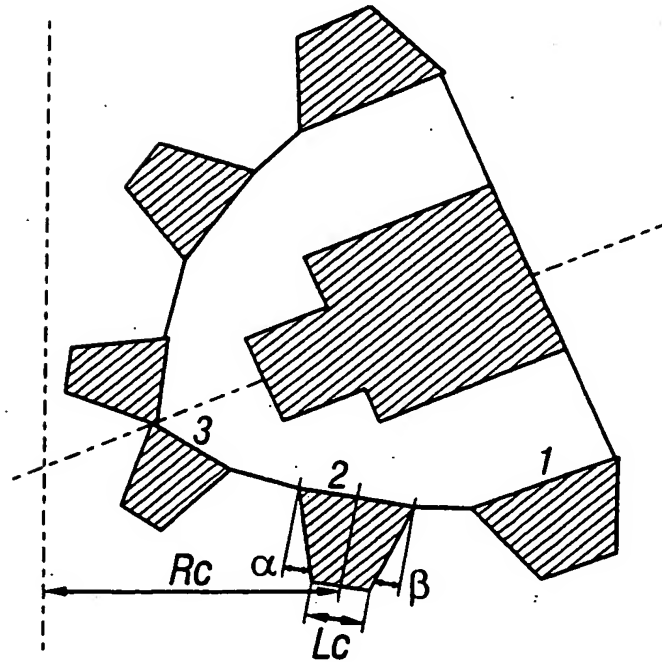


FIG. 3

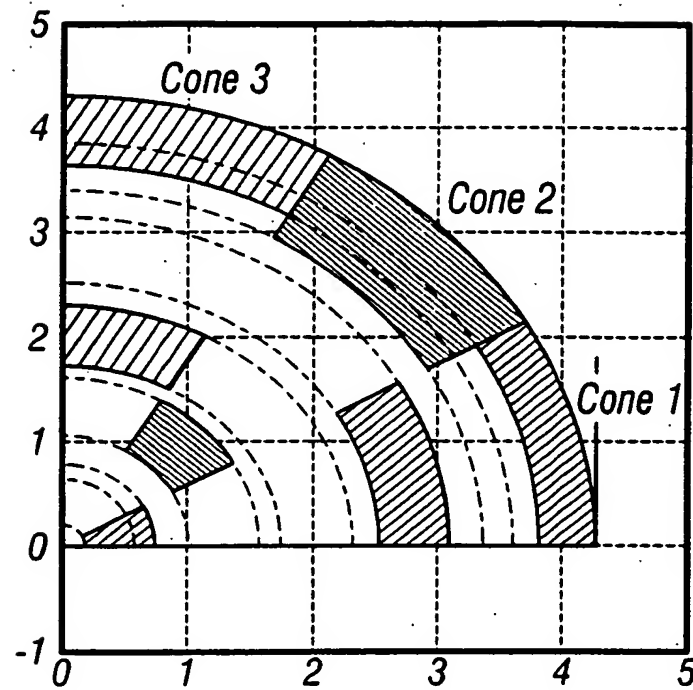


FIG. 4

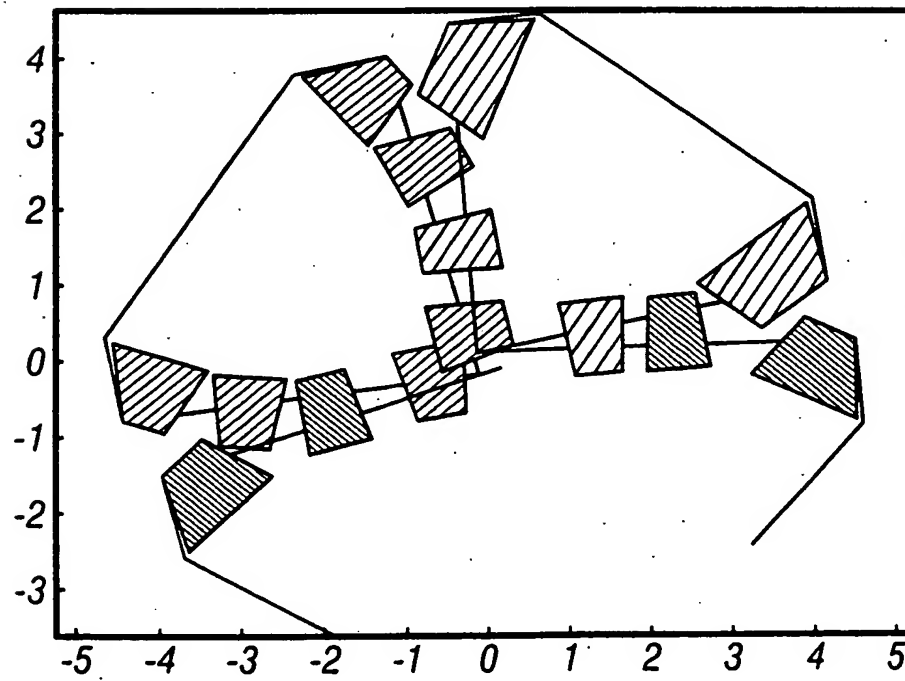


FIG. 5

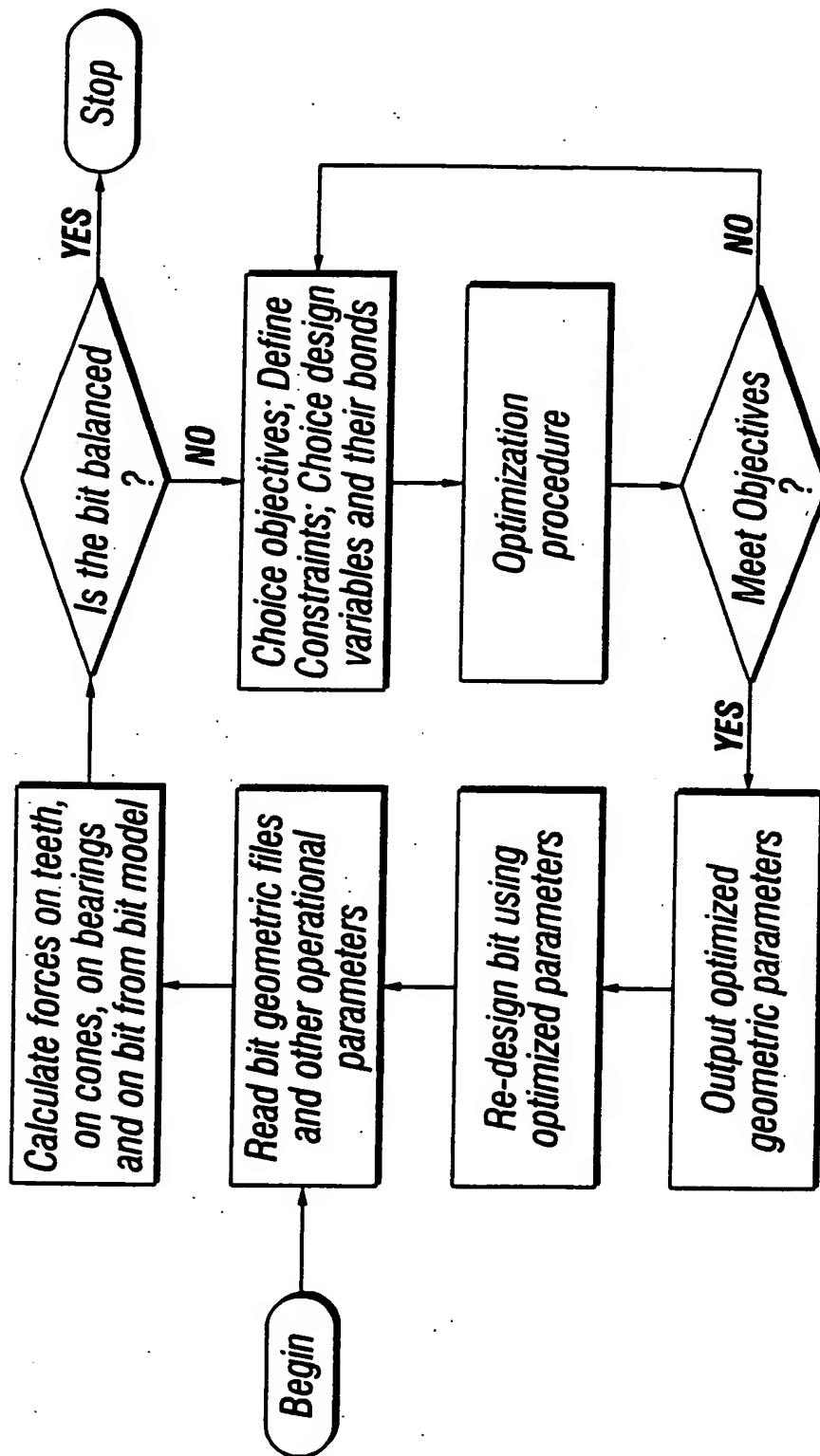


FIG. 6

σ/σ

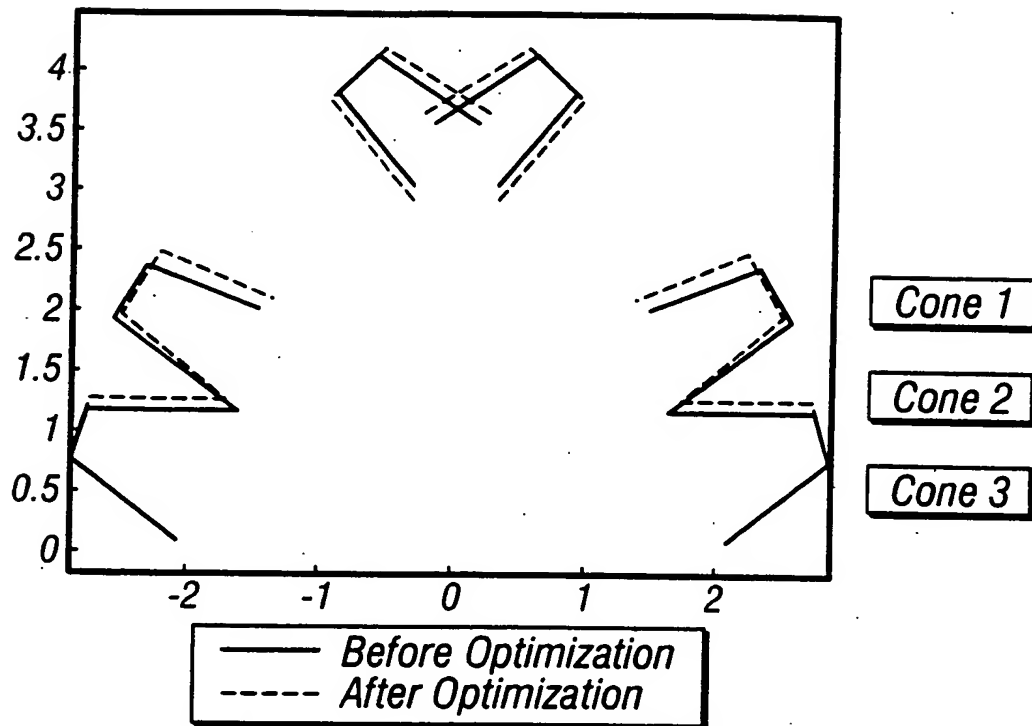


FIG. 7A

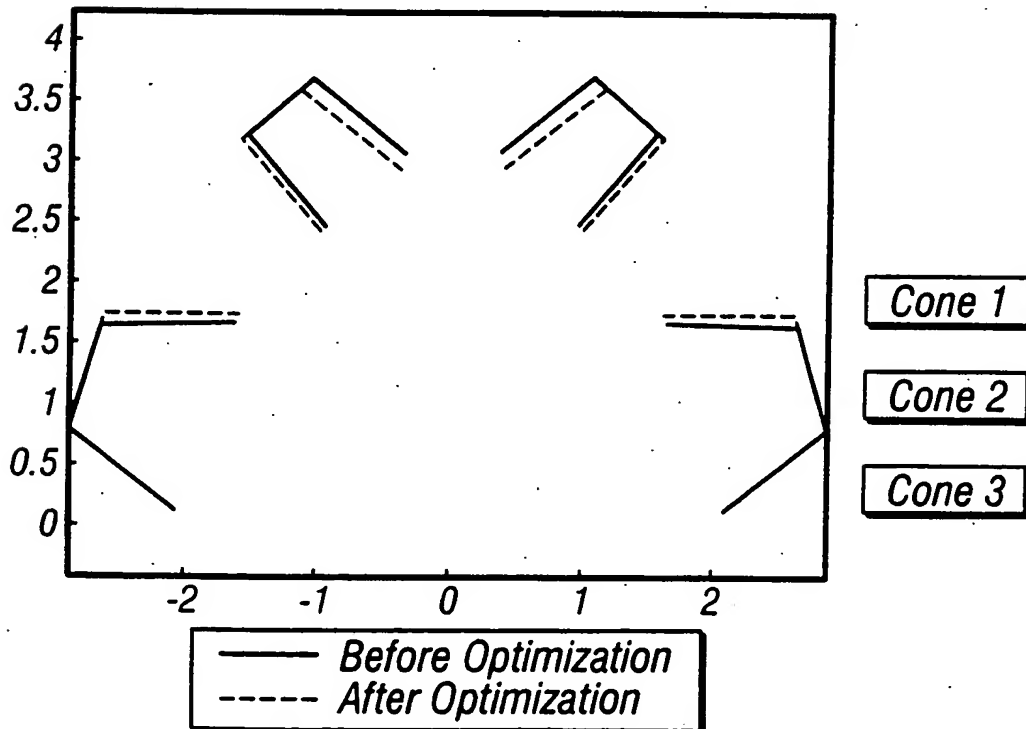


FIG. 7B

U/O

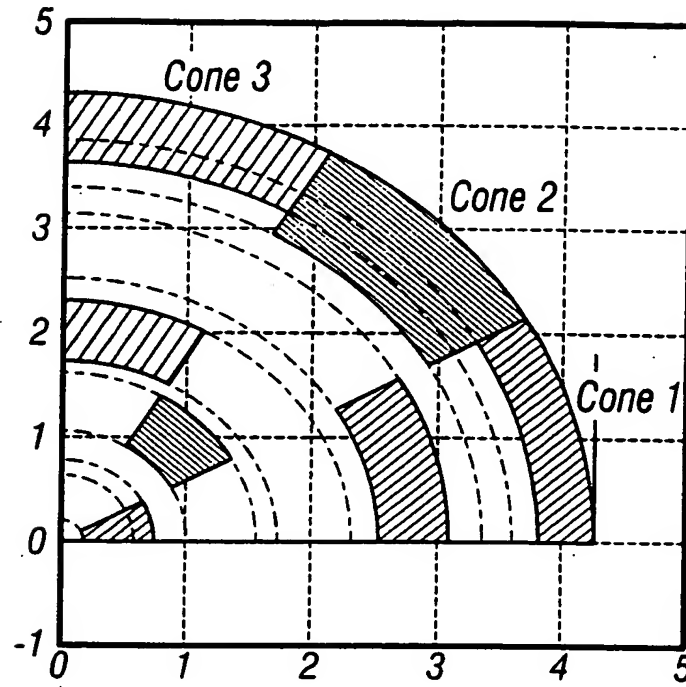


FIG. 8A

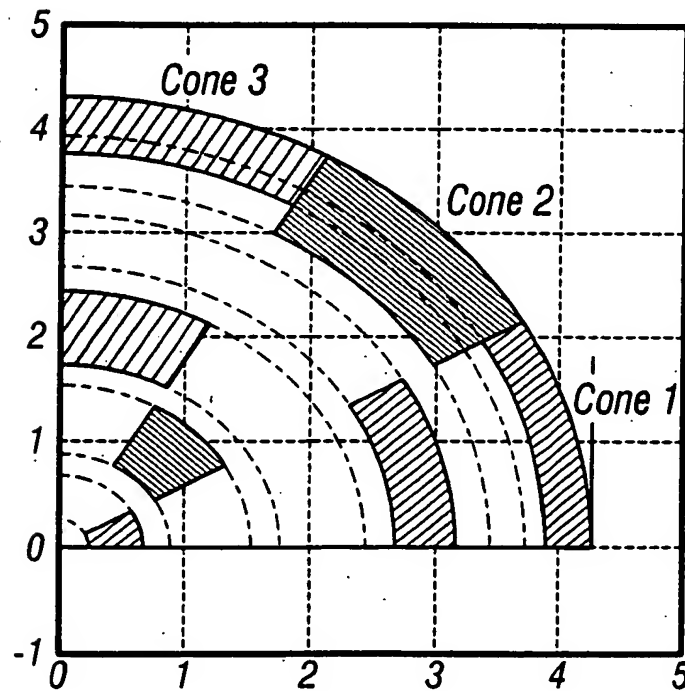


FIG. 8B

**FORCE-BALANCED ROLLER-CONE BITS,
SYSTEMS, DRILLING METHODS, AND
DESIGN METHODS**

Inventor: Shilin Chen
Date Filed: January 27, 2004
Attorney's Docket: 074263.0211 (SC-98-025 C3-B)
Sheet 7 of 8

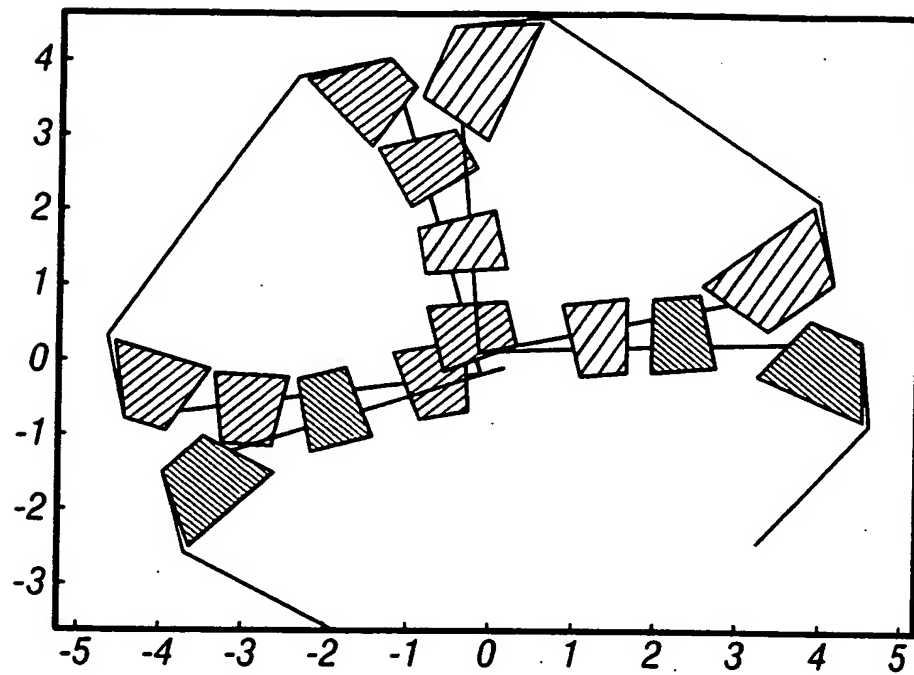


FIG. 9A

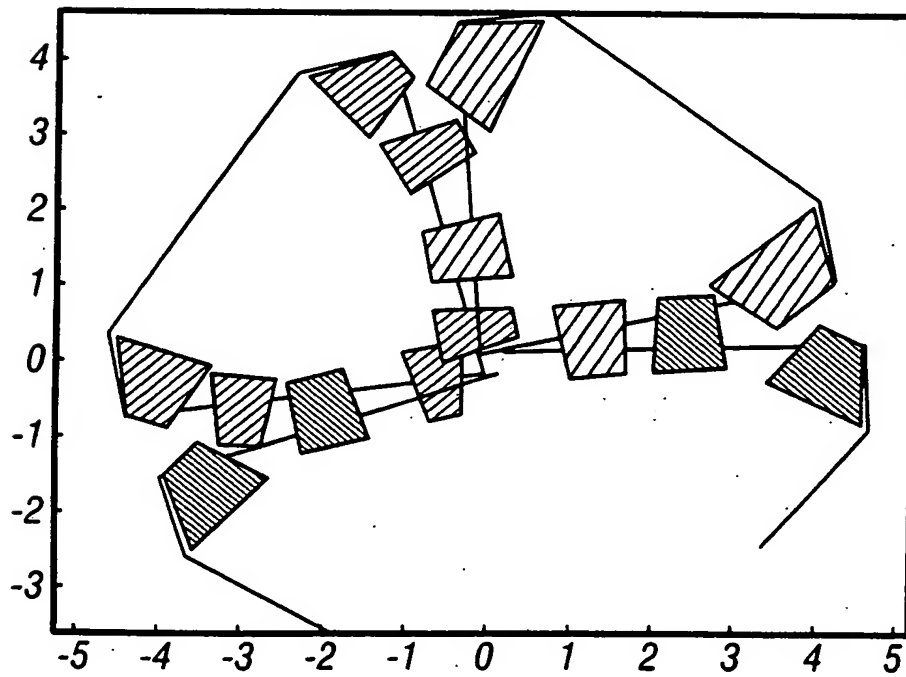


FIG. 9B

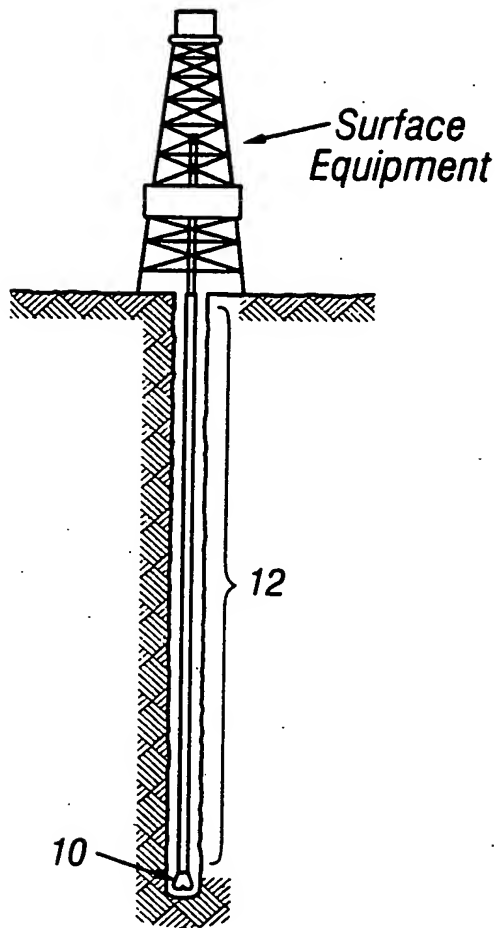


FIG. 10

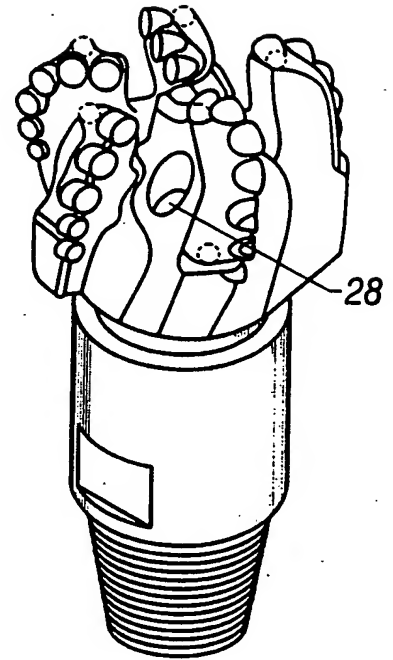


FIG. 11

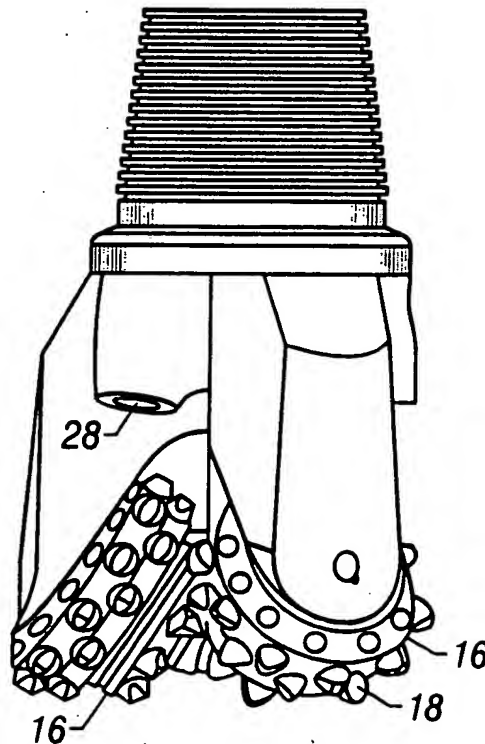


FIG. 12